

## Textbook Alignment to the Utah Core – Pre-Algebra

*This alignment has been completed using an “Independent Alignment Vendor” from the USOE approved list ([www.schools.utah.gov/curr/imc/indvendor.html](http://www.schools.utah.gov/curr/imc/indvendor.html).)* Yes   X   No       

Name of Company and Individual Conducting Alignment:  
Carissa Bautista

A “Credential Sheet” has been completed on the above company/evaluator and is (Please check one of the following):

☒ On record with the USOE.

☐ The “Credential Sheet” is attached to this alignment.

Instructional Materials Evaluation Criteria (name and grade of the core document used to align): Pre-Algebra Core Curriculum

Title: Math Connects: Concepts, Skills and Problems Solving, Course 3 © 2009 ISBN#: 0078740525 & 0078882931

Publisher: Glencoe/McGraw-Hill

Overall percentage of coverage in the *Student Edition (SE)* and *Teacher Edition (TE)* of the Utah State Core Curriculum:   100  %

Overall percentage of coverage in *ancillary materials* of the Utah Core Curriculum:                     %

STANDARD I: Students will expand number sense to understand, perform operations, and solve problems with rational numbers.				
Percentage of coverage in the <i>student and teacher edition</i> for Standard I: <u>100</u> %		Percentage of coverage not in student or teacher edition, but covered in the <i>ancillary material</i> for Standard I: _____ %		
OBJECTIVES & INDICATORS		Coverage in <i>Student Edition (SE) and Teacher Edition (TE)</i> (pg #'s, etc.)	Coverage in <i>Ancillary Material</i> (titles, pg #'s, etc.)	<i>Not covered in TE, SE or ancillaries</i> ✓
<b>Objective 1.1: Compute fluently with understanding and make reasonable estimates with rational numbers.</b>		<b>Student Edition:</b> 25-26, 41-56, 65-73, 96-98, 102-112, 114-123 <i>Algebra Lab</i> 40 <b>Teacher's Edition:</b> PA 32, 69, 116, 122		
<b>a.</b>	Compute fluently using all four operations with integers, and explain why the corresponding algorithms work.	<b>Student Edition:</b> 31-34, 36-39, 41-45, 46-49, 51-56, 65-69, 70-73 <i>Algebra Lab</i> 40 <b>Teacher's Edition:</b> AE 37, 42, 47, 52, 67, 71; PA 32, 69		
<b>b.</b>	Compute fluently using all four operations with rational numbers, including negative fractions and decimals, and explain why the corresponding algorithms work.	<b>Student Edition:</b> 96-98, 102-107, 108-112, 114-118, 119-123 <b>Teacher's Edition:</b> AE 97, 98, 103, 104, 109, 115; PA 116		

OBJECTIVES & INDICATORS		Coverage in <i>Student Edition (SE)</i> and <i>Teacher Edition (TE)</i> (pg #'s, etc.)	Coverage in <i>Ancillary Material</i> (titles, pg #'s, etc.)	Not covered in <i>TE, SE</i> or <i>ancillaries</i> ✓
c.	Check the reasonableness of results using estimation.	<b>Student Edition:</b> 25-26, 104 Example 5, 115 Example 4, 226 Example 2, 280, 430 #22-#23 <i>Study Tip</i> 163, 265, 286, 381 <i>Test-Taking Tip</i> 115 <b>Teacher's Edition:</b> DI 62; I 26		
<b>Objective 1.2: Analyze relationships among rational numbers, including negative rational numbers, and operations involving these numbers.</b>		<b>Student Edition:</b> 31-33, 43, 91-95, 144-147 <i>Get Ready</i> 102, 108, 114, 119 <i>Mini Lab</i> 96 <b>Teacher's Edition:</b> DI 109		
a.	Order rational numbers in various forms, including scientific notation (positive and negative exponents), and lace numbers on a number line.	<b>Student Edition:</b> 91-95, 101 #50, #55-#57, 107 #55, 130-133 <i>Study Guide and Review</i> 34 2-2 <b>Teacher's Edition:</b> A 95; AE 92, 93; DI 93; T 91; TT 133		
b.	Predict the effect of operating with fractions, decimals, percents, and integers as an increase or a decrease of the original value.	<b>Student Edition:</b> 107 #46-#47, 117 #36, 129 #44 <i>Get Ready</i> 102, 108, 114 <i>Mini Lab</i> 96 <b>Teacher's Edition:</b> DI 109; SQ 96, 102, 108, 114; TT 98		

OBJECTIVES & INDICATORS		Coverage in <i>Student Edition (SE)</i> and <i>Teacher Edition (TE)</i> (pg #'s, etc.)	Coverage in <i>Ancillary Material</i> (titles, pg #'s, etc.)	<i>Not covered in TE, SE or ancillaries</i> ✓
c.	Recognize and use the identity properties of addition and multiplication, the multiplicative property of zero, the commutative and associative properties of addition and multiplication, and the distributive property of multiplication over addition.	<b>Student Edition:</b> 31, 32 #25-#32, 33 #35-#36, #44, 43, 53, 56 #63-#64, 65-66, 70-71, 73 #35, 102, 156 <i>Get Ready</i> 119 #2, #4 <b>Teacher's Edition:</b> A 69; AE 31, 103		
d.	Recognize and use the inverse operations of adding and subtracting a fixed number, multiplying and dividing by a fixed number, and computing squares of whole numbers and taking square roots of perfect squares.	<b>Student Edition:</b> 43, 144-147, 158 #2, #13 <i>Geometry Lab</i> 161 <b>Teacher's Edition:</b> 144a; AE 156, 145; TT147		
<b>Objective 1.3: Solve problems involving rational numbers using addition, subtraction, multiplication, and division.</b>		<b>Student Edition:</b> 96-98, 102-107, 108-112, 114-118, 119-123 <b>Teacher's Edition:</b> AE 97, 98, 103, 104, 109, 115; PA 116		
a.	Recognize the absolute value of a rational number as its distance from zero.	<b>Student Edition:</b> 36-39, 45 #47-#48, 49 #52-#55 <i>Study Guide and Review</i> 76 1-3 <b>Teacher's Edition:</b> A 39; AE 36, 37; PA 39		

OBJECTIVES & INDICATORS		Coverage in <i>Student Edition (SE)</i> and <i>Teacher Edition (TE)</i> (pg #'s, etc.)	Coverage in <i>Ancillary Material</i> (titles, pg #'s, etc.)	<i>Not covered in TE, SE or ancillaries✓</i>
b.	Simplify numerical expressions, including those with whole number exponents and absolute values, using the order of operations.	<b>Student Edition:</b> 30, 32 #1-#6, #11-#21, 33 #45-#47, 34 #48, 39 #51-#53, 42-44, 96-100, 102-107, 108-111 <i>Algebra Lab</i> 40 <b>Teacher's Edition:</b> AE 30, 43, 97		
c.	Solve problems involving rational numbers, percents, and proportions.	<b>Student Edition:</b> 86 Example 3, 100 #48, 104 Example 5, 110 #27-#28, 112 #50, 117 #31, #37, 122 #38, 232-235, 236-241, 252-255, 256-261 <i>Get Ready</i> 119 <i>Reading to Solve Problems</i> 262 <b>Teacher's Edition:</b> AE 115		

<b>STANDARD II: Students will use proportion and similarity to solve problems.</b>				
<b>Percentage of coverage in the <i>student and teacher edition</i> for Standard II: <u>100</u> %</b>		<b>Percentage of coverage not in student or teacher edition, but covered in the <i>ancillary material</i> for Standard II: _____ %</b>		
<b>OBJECTIVES &amp; INDICATORS</b>		<b>Coverage in <i>Student Edition (SE) and Teacher Edition (TE)</i> (pg #'s, etc.)</b>	<b>Coverage in <i>Ancillary Material</i> (titles, pg #'s, etc.)</b>	<b><i>Not covered in TE, SE or ancillaries</i> ✓</b>
<b>Objective 2.1: Model and illustrate meanings of ratios, percents, and decimals.</b>		<b>Student Edition:</b> 190-193, 194-197, 198-203, 252-255, 263-267, 481-485 <b>Teacher's Edition:</b> A 191, 205, 255; DI 191		
<b>a.</b>	Compare ratios to determine if they are equivalent.	<b>Student Edition:</b> 190-193, 198-203, 256-259 <b>Teacher's Edition:</b> A 191, 193, 195; DI 191; T 190		
<b>b.</b>	Compare ratios using the unit rate.	<b>Student Edition:</b> 191 Example 4, 192 #5-#6, #18-#21, 193 #27, 198 Example 1 <b>Teacher's Edition:</b> DI 191		
<b>c.</b>	Represent percents as ratios based on 100 and decimals as ratios based on powers of ten.	<b>Student Edition:</b> 252-255, 263-267, 268, 271 #39-#42 <b>Teacher's Edition:</b> A 255, 264; AE 253; FM 253; T 252		

OBJECTIVES & INDICATORS		Coverage in <i>Student Edition (SE)</i> and <i>Teacher Edition (TE)</i> (pg #'s, etc.)	Coverage in <i>Ancillary Material</i> (titles, pg #'s, etc.)	<i>Not covered in TE, SE or ancillaries</i> ✓
d.	Graph proportional relationships and identify the unit rate as the slope of the related line.	<b>Student Edition:</b> 199-202, 204-208, 481-485 <b>Teacher's Edition:</b> AE 205, 206, 482; DI 483		
<b>Objective 2.2: Solve a wide variety of problems using ratios and proportional reasoning.</b>		<b>Student Edition:</b> 210-214, 232-235, 236-241, 263-271, 275-283 <i>Spreadsheet Lab</i> 294 <b>Teacher's Edition:</b> AE 211, 212; PA 212		
a.	Set up and solve problems involving proportional reasoning using variables.	<b>Student Edition:</b> 210-214, 232-235, 236-241, 263-261 <b>Teacher's Edition:</b> AE 211, 212, 238; PA 212		
b.	Solve percent problems, including problems involving discounts, interest, taxes, tips, and percent increase or decrease.	<b>Student Edition:</b> 263-267, 268-271, 284-278, 279-283, 284-289, 290-293 <i>Spreadsheet Lab</i> 294 <b>Teacher's Edition:</b> A 293; AE 265, 285, 291; PA 287		
c.	Solve ratio and rate problems using informal methods.	<b>Student Edition:</b> 189-203, 232-235 <i>Get Ready</i> 190, 210 <b>Teacher's Edition:</b> AE 199; T 210; TT 192		

OBJECTIVES & INDICATORS		Coverage in <i>Student Edition (SE)</i> and <i>Teacher Edition (TE)</i> (pg #'s, etc.)	Coverage in <i>Ancillary Material</i> (titles, pg #'s, etc.)	Not covered in <i>TE, SE</i> or <i>ancillaries</i> ✓
<b>Objective 2.3: Recognize similar polygons and use properties of similar triangles to solve problems and define the slope of a line.</b>		<b>Student Edition:</b> 218-223, 225-230, 232-235, 236-241, 481-485 <i>Geometry Lab</i> 224, 493 <i>Spreadsheet Lab</i> 231 <b>Teacher's Edition:</b> 218a; A 223; AE 219, 220, 221, 227; PA 212; T 218		
<b>a.</b>	Define similar polygons as polygons with corresponding angles congruent and corresponding sides that are proportional.	<b>Student Edition:</b> 218-223, 225-230, 232-235, 236-241 <i>Geometry Lab</i> 224 <i>Spreadsheet Lab</i> 231 <b>Teacher's Edition:</b> 218a; A 223; AE 219, 220, 221, 227; PA 212; T 218		
<b>b.</b>	Identify pairs of similar triangles using two pairs of congruent angles, or two pairs of proportional sides with congruent included angles.	<b>Teacher's Edition:</b> PA 212		
<b>c.</b>	Find missing lengths of similar triangles, including inaccessible lengths, using proportions.	<b>Student Edition:</b> 218-223, 232-235 <i>Study Guide and Review</i> 245 4-7, 4-9 <b>Teacher's Edition:</b> 232a; A 223; AE 233; PA 233		



OBJECTIVES & INDICATORS		Coverage in <i>Student Edition (SE)</i> and <i>Teacher Edition (TE)</i> (pg #'s, etc.)	Coverage in <i>Ancillary Material</i> (titles, pg #'s, etc.)	Not covered in <i>TE, SE</i> or <i>ancillaries</i> ✓
d.	Define the slope of a line as the ratio of the vertical change to the horizontal change between two points, and show that the slope is constant using similarity of right triangles.	<b>Student Edition:</b> 481-185, 487-491 <i>Geometry Lab</i> 493 <b>Teacher's Edition:</b> 487a; AE 482, 488, 489; PA 489		
<b>STANDARD III: Students will develop fluency with the language and operations of algebra to analyze and represent relationships.</b>				
Percentage of coverage in the <i>student and teacher edition</i> for Standard III: <u>    100    </u> %		Percentage of coverage not in student or teacher edition, but covered in the <i>ancillary material</i> for Standard III: <u>                    </u> %		
OBJECTIVES & INDICATORS		Coverage in <i>Student Edition (SE)</i> and <i>Teacher Edition (TE)</i> (pg #'s, etc.)	Coverage in <i>Ancillary Material</i> (titles, pg #'s, etc.)	Not covered in <i>TE, SE</i> or <i>ancillaries</i> ✓
<b>Objective 3.1: Generalize and express patterns using algebraic expressions.</b>		<b>Student Edition:</b> 427, 429-430, 464-467, 469-472 <b>Teacher's Edition:</b> 464a, 469a; AE 428, 465		
a.	Compare representations of a relation using tables, graphs, algebraic symbols, and mathematical rules.	<b>Student Edition:</b> 469-472, 475-479 <i>Get Ready</i> 434 <i>Graphing Calculator Lab</i> 500-501 <i>Problem-Solving Investigation</i> 438 <b>Teacher's Edition:</b> 434a, 475a; AE 503		

OBJECTIVES & INDICATORS		Coverage in <i>Student Edition (SE)</i> and <i>Teacher Edition (TE)</i> (pg #'s, etc.)	Coverage in <i>Ancillary Material</i> (titles, pg #'s, etc.)	<i>Not covered in TE, SE or ancillaries</i> ✓
b.	Describe simple patterns using a mathematical rule or algebraic expression.	<b>Student Edition:</b> 427, 429-430, 464-467, 469-472 <b>Teacher's Edition:</b> 464a, 469a; AE 428, 465		
c.	Create and extend simple numerical and visual patterns.	<b>Student Edition:</b> 429 #1-#3, #6-#9, 430 #26, 467 #30-#31, 475-479 <i>Geometry Lab</i> 493 <i>Get Ready</i> 487 <i>Mini Lab</i> 464 <b>Teacher's Edition:</b> 469a; AE 428		
<b>Objective 3.2: Evaluate, simplify, and solve algebraic expressions, equations, and inequalities.</b>		<b>Student Edition:</b> 36-38, 416-421, 422-426, 428-431, 434-437 441-444, 445-447, 449-453 <i>Algebra Lab</i> 40, 432-433 <i>Get Ready</i> 427 <i>Problem-Solving Investigation</i> 438		
a.	Evaluate algebraic expressions, including those with whole number exponents, when given values for the variable(s).	<b>Student Edition:</b> 30, 32 #1-#6, #11-#24, 36-38, 127 <i>Algebra Lab</i> 40 <i>Get ready</i> 427 <i>Problem-Solving Investigation</i> 438 <b>Teacher's Edition:</b> AE 30, 37, 127		

OBJECTIVES & INDICATORS		Coverage in <i>Student Edition (SE)</i> and <i>Teacher Edition (TE)</i> (pg #'s, etc.)	Coverage in <i>Ancillary Material</i> (titles, pg #'s, etc.)	<i>Not covered in TE, SE or ancillaries</i> ✓
<b>B</b> .	Simplify algebraic expressions using the order of operations, algebraic properties, and exponent rules.	<b>Student Edition:</b> 416-421 <i>Study Guide and Review</i> 455 8-1 <b>Teacher's Edition:</b> A 421; AE 417, 418; PA 418		
<b>c.</b>	Solve single-variable linear equations and inequalities, including those that must be simplified on one side or those with variables on both sides of an equation.	<b>Student Edition:</b> 422-426, 428-431, 434-437 441-444, 445-447, 449-453 <i>Algebra Lab</i> 432-433 <i>Problem-Solving Investigation</i> 438 <b>Teacher's Edition:</b> 427a; AE 423, 424, 435, 442; PA 428, 448		
<b>Objective 3.3: Represent relationships using graphs, tables, and other models.</b>		<b>Student Edition:</b> 469-472, 475-479 <i>Get Ready</i> 434 <i>Graphing Calculator Lab</i> 500-501 <i>Problem-Solving Investigation</i> 438 <b>Teacher's Edition:</b> 434a, 475a; AE 503		

OBJECTIVES & INDICATORS		Coverage in <i>Student Edition (SE)</i> and <i>Teacher Edition (TE)</i> (pg #'s, etc.)	Coverage in <i>Ancillary Material</i> (titles, pg #'s, etc.)	<i>Not covered in TE, SE or ancillaries✓</i>
a.	Identify approximate rational coordinates when given the graph of a point on a rectangular coordinate system.	<b>Student Edition:</b> 173-177 <i>Get Ready</i> 475 <i>Practice Test</i> 183 #23-#25 <i>Study Guide and Review</i> i182 3-4 <b>Teacher's Edition:</b> 173a; AE 174, 175, 477; PA 175; T 475		
b.	Graph ordered pairs of rational numbers on a rectangular coordinate system.	<b>Student Edition:</b> 173-177 <i>Get Ready</i> 475 <i>Practice Test</i> 183 #23-#25 <i>Study Guide and Review</i> i182 3-4 <b>Teacher's Edition:</b> 173a; AE 174, 175, 477; PA 175; T 475		
c.	Graph linear equations using ordered pairs or tables.	<b>Student Edition:</b> 476, 485 #15-#16 <i>Get ready</i> 475 <i>Study Guide and Review</i> 519 9-3 <b>Teacher's Edition:</b> AE 476		

OBJECTIVES & INDICATORS		Coverage in <i>Student Edition (SE)</i> and <i>Teacher Edition (TE)</i> (pg #'s, etc.)	Coverage in <i>Ancillary Material</i> (titles, pg #'s, etc.)	<i>Not covered in TE, SE or ancillaries</i> ✓
d.	Recognize that all first order equations produce linear graphs.	<b>Student Edition:</b> 475-479, 487-491, 495-499 <i>Graphing Calculator Lab</i> 500-501 <i>Study Guide and Review</i> 519 9-3, 520-521 <b>Teacher's Edition:</b> AE 476, 477, 480, 496; PA 505		
e.	Model real-world problems using graphs, tables, equations, manipulatives, and pictures, and identify extraneous information.	<b>Student Edition:</b> 435 Example 3, 436 #22-#23, 443 #10-#15, 470 Example 4, 475 Example 1, 479 #22, 504 Example 4 <i>Get Ready</i> 427, 434, 441, 469, 475, 487, 495 <b>Teacher's Edition:</b> 434a		

STANDARD IV: Students will use algebraic, spatial, and logical reasoning to solve geometry and measurement problems.				
Percentage of coverage in the <i>student and teacher edition</i> for Standard IV: <u>100</u> %		Percentage of coverage not in student or teacher edition, but covered in the <i>ancillary material</i> for Standard IV: _____ %		
OBJECTIVES & INDICATORS		Coverage in <i>Student Edition (SE) and Teacher Edition (TE)</i> (pg #'s, etc.)	Coverage in <i>Ancillary Material</i> (titles, pg #'s, etc.)	<i>Not covered in TE, SE or ancillaries</i> ✓
Objective 4.1: Apply the properties of proportionality of different units of measure.		<b>Student Edition:</b> 23 #14, 98 Example 4, 206 Example 3, 214 #28, #37, 227 Example 4, 236-241, 403 #17, 479 #17-#19 <i>Concepts and Skills Bank</i> 742-745 <i>Practice Test</i> 247 #4 <b>Teacher's Edition:</b> A 241; AE 237		
a.	Convert units of measure within the same system.	<b>Student Edition:</b> 214 #34, 377 #23-#25 <i>Concepts and Skills Bank</i> 742-743		
b.	Create and interpret scale drawings and approximate distance on maps using scale factors.	<b>Student Edition:</b> 236-241, 255 #38, 261 #72 <i>Practice Test</i> 247 #12 <i>Study Guide and review</i> 246 4-10 <i>Test Practice</i> 249 #10 <b>Teacher's Edition:</b> 236a; A 241; AE 237, 238		

OBJECTIVES & INDICATORS		Coverage in <i>Student Edition (SE)</i> and <i>Teacher Edition (TE)</i> (pg #'s, etc.)	Coverage in <i>Ancillary Material</i> (titles, pg #'s, etc.)	<i>Not covered in TE, SE or ancillaries</i> ✓
c.	Solve problems using scale factors.	<b>Student Edition:</b> 98 Example 4, 206 Example 3, 214 #37, 227 #4, 232-235, 236-241, 255 #39, 403 #17 <i>Geometry Lab</i> 224 <b>Teacher's Edition:</b> AE 233		
Objective 4.2: Derive formulas for surface areas and volume of three-dimensional figures.		<b>Student Edition:</b> 373-378, 380-384, 386-391, 393-396, 399-404 <i>Measurement Lab</i> 385, 392 <i>Mid-Chapter Quiz</i> 379 #10-#11 <i>Spreadsheet Lab</i> 397 <b>Teacher's Edition:</b> 386a, 380a, 386a; AE 374, 375, 381, 387; T 373		

OBJECTIVES & INDICATORS		Coverage in <i>Student Edition (SE)</i> and <i>Teacher Edition (TE)</i> (pg #'s, etc.)	Coverage in <i>Ancillary Material</i> (titles, pg #'s, etc.)	<i>Not covered in TE, SE or ancillaries✓</i>
a.	Derive formulas for and calculate surface area and volume of right prisms and cylinders using appropriate units.	<b>Student Edition:</b> 373-378, 386-391 <i>Measurement Lab</i> 385 <i>Mid-chapter Quiz</i> 379 #10-#11 <i>Spreadsheet Lab</i> 397 <b>Teacher's Edition:</b> 386a; AE 374, 375; T 373		
b.	Explain that if a scale factor describes how corresponding lengths in two similar objects are related, then the square of the scale factor describes how corresponding areas are related and the cube of the scale factor describes how corresponding volumes are related.	<b>Student Edition:</b> 218-223, 399-404 <i>Geometry Lab</i> 224 <i>Practice Test</i> 409 #14-316 <i>Spreadsheet Lab</i> 397-398 <i>Study Guide and Review</i> 408 7-9 <b>Teacher's Edition:</b> A 404; FM 400; T 399		
c.	Find lengths, areas, and volumes of similar figures, using the scale factor.	<b>Student Edition:</b> 218-223, 399-404 <i>Practice Test</i> 409 #14-#16 <i>Spreadsheet Lab</i> 397-698 <i>Study Guide and review</i> 408 7-9 <b>Teacher's Edition:</b> AE 219, 220, 221, 400, 401		



OBJECTIVES & INDICATORS		Coverage in <i>Student Edition (SE)</i> and <i>Teacher Edition (TE)</i> (pg #'s, etc.)	Coverage in <i>Ancillary Material</i> (titles, pg #'s, etc.)	Not covered in <i>TE, SE</i> or <i>ancillaries</i> ✓
d.	Select appropriate two- and three-dimensional figures to model real-world objects, and solve a variety of problems involving surface areas and volumes of cylinders and prisms.	<b>Student Edition:</b> 355 #16-#19, 356 #25-#31, 364 Example 2, 371 #17-#18, 376 #16-#21, 377 #22, #26, 383 #18, #22-#23, 387 Example2, 389 Example 4 <i>Get Ready</i> 363, 368 <b>Teacher's Edition:</b> AE 354		
<b>STANDARD V: Students will use algebraic, spatial, and logical reasoning to solve geometry and measurement problems.</b>				
Percentage of coverage in the <i>student and teacher edition</i> for Standard V: <u>100</u> %		Percentage of coverage not in student or teacher edition, but covered in the <i>ancillary material</i> for Standard V: _____%		
OBJECTIVES & INDICATORS		Coverage in <i>Student Edition (SE)</i> and <i>Teacher Edition (TE)</i> (pg #'s, etc.)	Coverage in <i>Ancillary Material</i> (titles, pg #'s, etc.)	Not covered in <i>TE, SE</i> or <i>ancillaries</i> ✓
<b>Objective 5.1 Calculate probabilities of events and compare theoretical and experimental probability.</b>		<b>Student Edition:</b> 637-642, 643-645 <i>Mini Lab</i> 643 <i>Probability Lab</i> 648 <b>Teacher's Edition:</b> 637a, 643a; A 647; AE 638, 639, 644; PA 639, 644; T 643		

OBJECTIVES & INDICATORS		Coverage in <i>Student Edition (SE)</i> and <i>Teacher Edition (TE)</i> (pg #'s, etc.)	Coverage in <i>Ancillary Material</i> (titles, pg #'s, etc.)	<i>Not covered in TE, SE or ancillaries</i> ✓
a.	Solve counting problems using the Fundamental Counting Principle.	<b>Student Edition:</b> 633-635, 642 #37, 647 #27 <i>Study Guide and Review</i> 660 12-1 <b>Teacher's Edition:</b> 632a; A 636; AE 633		
b.	Calculate the probability of an event or sequence of events with and without replacement using models.	<b>Student Edition:</b> 637-642, 643-645 <i>Mini Lab</i> 643 <i>Probability Lab</i> 648 <b>Teacher's Edition:</b> 637a, 643a; A 647; AE 638, 639, 644; PA 639, 644; T 643		
c.	Recognize that the sum of the probability of an event and the probability of its complement is equal to one.	The sum of a probability and its complement can be discussed along with the lessons in Chapter 12.		
d.	Make approximate predictions using theoretical probability and proportions.	<b>Student Edition:</b> 643, 645 #1, 646 #13, #19, #22 <b>Teacher's Edition:</b> 643a; FM 645		

OBJECTIVES & INDICATORS		Coverage in <i>Student Edition (SE)</i> and <i>Teacher Edition (TE)</i> (pg #'s, etc.)	Coverage in <i>Ancillary Material</i> (titles, pg #'s, etc.)	<i>Not covered in TE, SE or ancillaries✓</i>
e.	Collect and interpret data to show that as the number of trials increases, experimental probability approaches the theoretical probability.	<b>Student Edition:</b> 653-657 <i>Mini Lab</i> 643 <i>Probability Lab</i> 648-649 <b>Teacher's Edition:</b> AE 654, 655; T 643		
<b>Objective 5.2: Formulate questions and answer the questions by organizing and analyzing data.</b>		<b>Student Edition:</b> 579 #19-#20, 587 #14, #22 <i>Get Ready</i> 576, 582 <i>Graphing Calculator Lab</i> 581 <i>Problem-Solving Investigation</i> 574 <b>Teacher's Edition:</b> 576a; AE 575; T 582		
a.	Formulate questions that can be answered through data collection and analysis.	<b>Student Edition:</b> 579 #19-#20, 587 #14, #22 <i>Get Ready</i> 576, 582 <i>Graphing Calculator Lab</i> 581 <i>Problem-Solving Investigation</i> 574 <b>Teacher's Edition:</b> 576a; AE 575; T 582		

OBJECTIVES & INDICATORS		Coverage in <i>Student Edition (SE)</i> and <i>Teacher Edition (TE)</i> (pg #'s, etc.)	Coverage in <i>Ancillary Material</i> (titles, pg #'s, etc.)	<i>Not covered in TE, SE or ancillaries</i> ✓
b.	Determine the 25th and 75th percentiles (first and third quartiles) to obtain information about the spread of data.	This objective can taught with the following references to measures of variation where the student is able to determine the lower and upper quartiles. <b>Student Edition:</b> 599-604 <b>Teacher's Edition:</b> A 604; AE 600		
c.	Graphically summarize data of a single variable using histograms and box-and whisker plots.	<b>Student Edition:</b> 576-580, 605-610 <i>Graphing Calculator Lab</i> 581, 611 <b>Teacher's Edition:</b> 576a, 605a; AE 577, 578, 606, 607; T 576; TT 576		
d.	Compute the mean and median of a numerical characteristic and relate these values to the histogram of the data.	<b>Student Edition:</b> 591-596 <i>Spreadsheet Lab</i> 597 <i>Study Guide and Review</i> 624 11-4 <b>Teacher's Edition:</b> 591a; AE 592, 593; PA 596; T 591		

OBJECTIVES & INDICATORS		Coverage in <i>Student Edition (SE)</i> and <i>Teacher Edition (TE)</i> (pg #'s, etc.)	Coverage in <i>Ancillary Material</i> (titles, pg #'s, etc.)	<i>Not covered in TE, SE or ancillaries✓</i>
e.	Use graphical representations and numerical summaries to answer questions and interpret data.	<b>Student Edition:</b> 579 #19-#20, 587 #14, #22 <i>Get Ready</i> 576, 582 <i>Graphing Calculator Lab</i> 581 <i>Problem-Solving Investigation</i> 574 <b>Teacher's Edition:</b> 576a; AE 575; T 582		